Contents Volume 76 (1993)

Vol. 76, No. 1 (January 19, 1993)

Thermo-osmosis of sorbable gases in porous media. Part III. Single gases
R. Ash, R.M. Barrer, A. Vernon Edge, T. Foley and C.L. Murray (London, United Kingdom) 1

Non-steady state vs. steady state kinetic analysis of coupled ion transport through binary liquid membranes
M. Szpakowska (Gdańsk-Wrzeszcz, Poland) and O. B.Nagy (Louvain-la-Neuve, Belgium) 27

Separation of Ag^{+}, Zn^{2+} and Cu^{2+} ions by electrodialysis with a monovalent cation specific membrane and EDTA
A.T. Cherif (Alger, Algeria), A. Elmidaoui and C. Gavach (Montpellier, France) 39

Fouling behaviour of silica on four different microfiltration membranes
K.M. Persson, G. Trägårdh and P. Dejmek (Lund, Sweden) 51

Porosity and protein adsorption of four polymeric microfiltration membranes
K.M. Persson (Lund, Sweden), G. Capannelli, A. Bottino (Genoa, Italy) and G. Trägårdh (Lund, Sweden) 61

Characterisation of Pall RAI charged microporous membranes
R. Simons and M.R. Dickson (Kensington, N.S.W., Australia) 73

Rapid Communications

Reduction of membrane fouling in the presence of high polarization resistance
K.D. Miller, S. Weitzel and V.G.J. Rodgers (Iowa City, IA, USA) 77

Stochastic approach to modeling surface fouling of ultrafiltration membranes
J.R.V. Flora (Cincinnati, OH, USA) 85

Solubility of gases and vapors in biological media: a simple correlation
S.A. Stern, S.G. Charati and N. Onurval (Syracuse, NY, USA) 89

Meeting Announcements 97
Meetings Calendar 99

Vol. 76, Nos. 2+3 (February 2, 1993)

Characterization of the adsorption-fouling layer using globular proteins on ultrafiltration membranes
M.K. Ko, J.J. Pellegrino, R. Nassimbene and P. Marko (Boulder, CO, USA) 101

Pervaporation of dilute organic–waters mixtures. A literature review on modelling studies and applications to aroma compound recovery
H.O.E. Karlsson and G. Trägårdh (Lund, Sweden) 121

Electrodialysis in the separation of dilute aqueous solutions of sulfuric and nitric acids
R. Audinos, A. Nassr-Allah (Toulouse, France), J.R. Alvarez, J.L. Andres and R. Alvarez (Oviedo, Spain) 147

Preparation and characterization of silicone membranes for supported liquid membrane applications
J.S. Gill, U.R. Marwah and B.M. Misra (Bombay, India) 157

Heterogeneous modelling of packed bed fermentor with permselective membranes
A.E. Abasaeed and S.S.E.H. Elnashaie (Riyadh, Saudi Arabia) 165

Morphology of the rejecting surface of aromatic polyamide membranes for desalination
S.A. Sundet (Wilmington, DE, USA) 175

Heat effect in gas permeation, with special reference to spiral-wound modules
A.E. Cornelissen (Amsterdam, The Netherlands) 185

Uphill transport of amino acids through 2,3-epithiopropyl methacrylate–2-acrylamide-2-methyl propane sulfonic acid copolymer membranes
T. Nonaka, T. Takeda and H. Egawa (Kumamoto-shi, Japan) 193

Preparation of microfiltration membranes containing anion-exchange groups
K. Kobayashi, S. Tsuneda, K. Saito, H. Yamagishi, S. Furusaki (Tokyo, Japan) and T. Sugo (Gunma, Japan) 209

Kinetics of the extraction of phenylalanine and glutamic acid by ion-exchange carriers
C.C. Chan (Taichung, Taiwan) and S.S. Wang (Hsinchu, Taiwan) 219

pH-responsive permeability of poly(acrylic acid)–poly(ethylenimine) complex capsule membrane
K. Kono, F. Tabata and T. Takagishi (Osaka, Japan) 233

Ultrafiltration of whey protein solutions in spacer-filled flat channels
A.R. Da Costa, A.G. Fane and D.E. Wiley (Kensington, N.S.W., Australia) 245

Specialty polymeric membranes. 1. Modified polybutadiene membranes for alcohol separation
M. Yoshikawa, T. Wano and T. Kitao (Kyoto, Japan) 255

The diffusion limited oxidase-based glucose enzyme electrode: relation between covering membrane permeability and substrate response
Z. Koochaki, S.P.J. Higson (Salford, UK), M. Mutlu (Ankara, Turkey) and P.M. Vadgama (Salford, UK) 261

Ultrafiltration membranes made of vinyl chloride–vinyl acetate copolymer
M. Bodzek and K. Konieczny (Gliwice, Poland) 269

The anti-fouling action of polymers preadsorbed on ultrafiltration and microfiltration membranes
L.E.S. Brink, S.J.G. Elbers, T. Robbertsen and P. Both (Ede, The Netherlands) 281

Meeting Announcement 293
Meetings Calendar 294
Author Index Volume 76 (1993) 296
Subject Index Volume 76 (1993) 297

SUBSCRIPTION INFORMATION

Subscription price for 1993 (Vols. 73–83): Dfl. 3960 plus Dfl. 363 (p.p.h.) = Dfl. 4323 (approx. US$ 2470). The Dutch guilder price is definitive. The U.S. dollar price is subject to exchange-rate fluctuations and is given only as a guide. All back volumes are available. Our p.p.h. (postage, package and handling) charge includes surface delivery of all issues, except to subscribers in the USA, Canada, Australia, New Zealand, P.R. China, India, Israel, South Africa, Malaysia, Thailand, Singapore, South Korea, Taiwan, Pakistan, Hong Kong, Brazil, Argentina and Mexico, who receive all issues by air delivery (S.A.L. — Surface Air Lifted) at no extra cost. For Japan, air delivery requires 25% additional charge; for all other countries airmail and S.A.L. charges are available upon request. Subscription orders can be entered only by Calendar year (Jan.–Dec.) and should be sent to: Elsevier Science Publishers B.V., Journals Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands. Tel: (020) 5803642; fax: (020) 5803598; telex 18582. A specimen copy will be sent on request. Claims for issues not received should be made within six months of publication of the issue. If not, they cannot be honoured free of charge. Customers in the USA and Canada wishing information on this and other Elsevier journals, please contact Journal Information Center, Elsevier Science Publishing Company, Inc., 655 Avenue of the Americas, New York, NY 10010. Tel: (212) 633-3750; fax: (212) 633-3764. For advertising rates apply to the publishers.